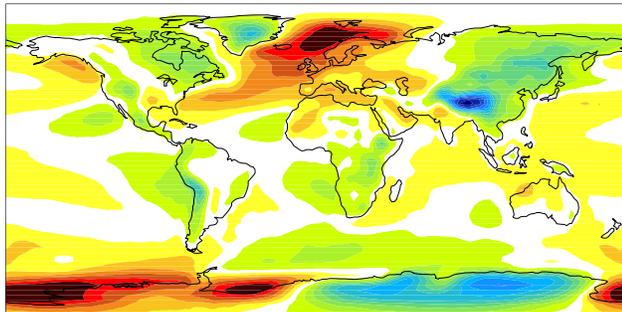
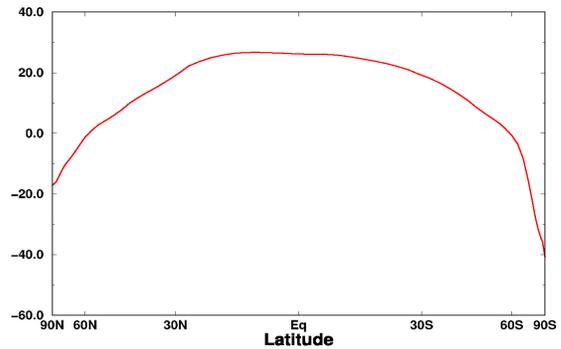


Resolve monthly mean data into components

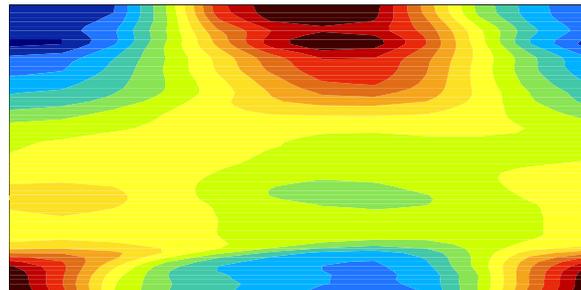
Example: climatological surface air temperature

Ψ_0 = global mean, annual mean ("bias") → 288 K

$\Psi_1(\phi)$ = zonal mean, annual mean →



← $\Psi_2(\lambda, \phi)$ = annual mean deviations from the zonal mean



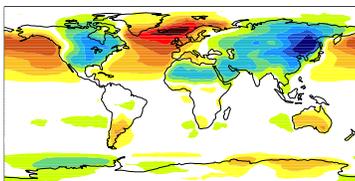
$\Psi_3(\phi, \tau)$ = annual cycle of the zonal mean →

$\Psi_4(\lambda, \phi, \tau)$ = annual cycle of deviations from the zonal mean

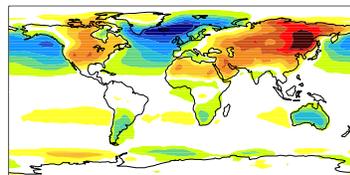
January

July

December



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